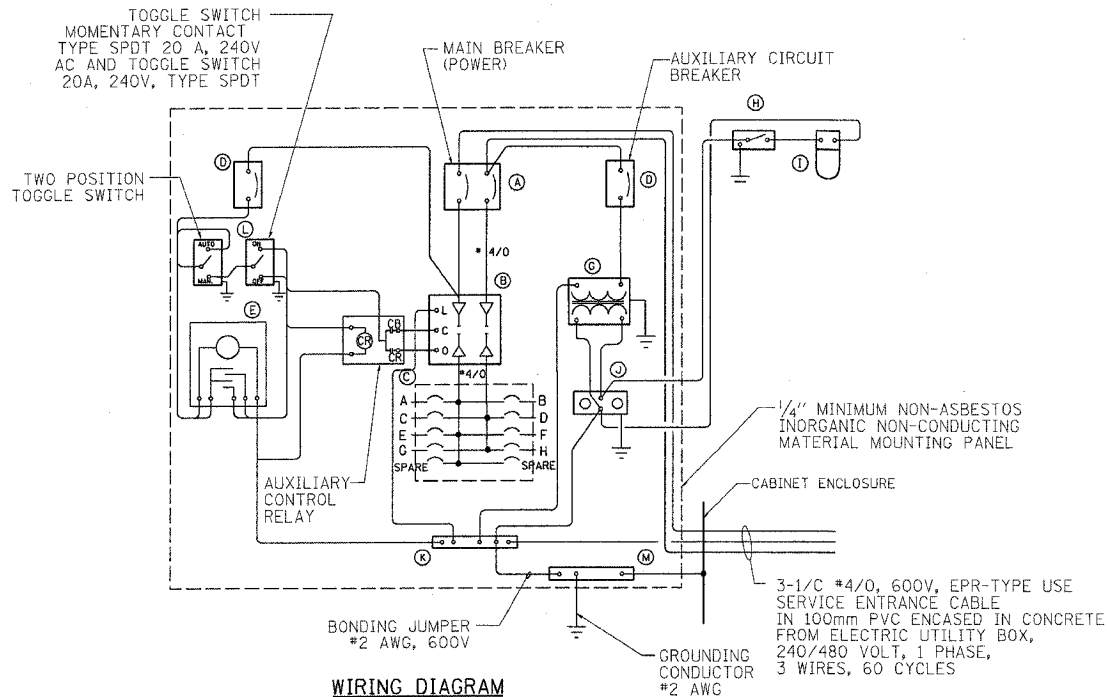


ROUTE	SECTION	COUNTY	SHEET	SHEETS
FAU 2657	081	LAKE	38	92
PLAN SHEET				
93-00081-04-CH ILLINOIS BUFFALO GROVE RD.				

Contract No. 83656



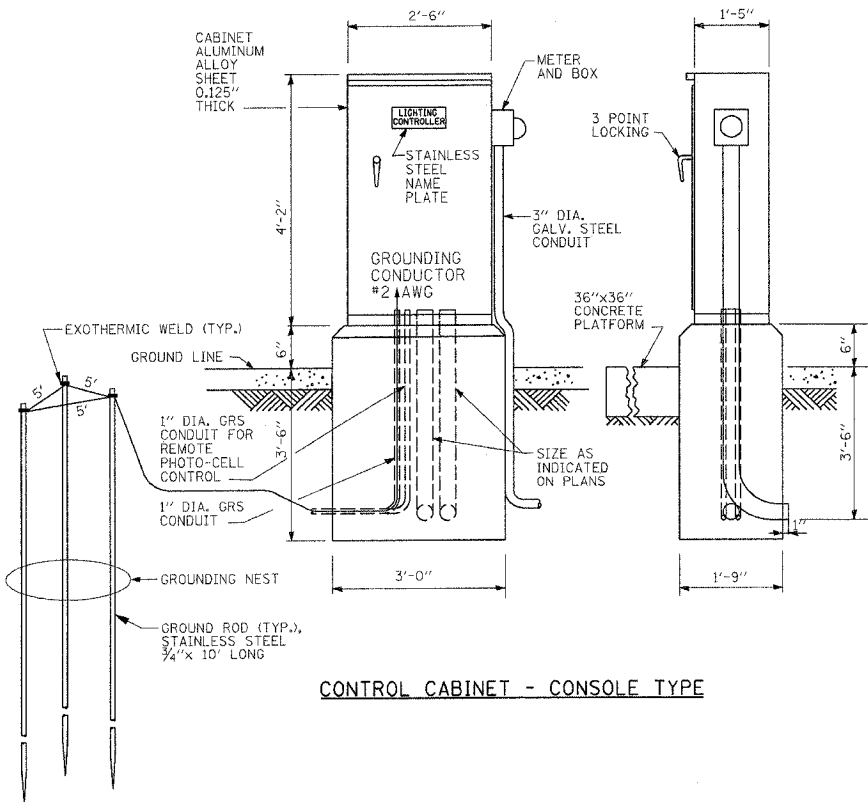
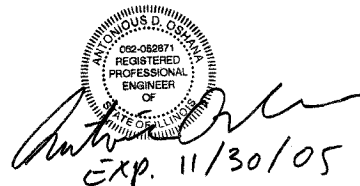
WIRING DIAGRAM

PANEL EQUIPMENT BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 200 AMP. BASE, 200 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 200 AMP. 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920.
C	1	PANEL BOARD, 225A, 240/480 VAC, SINGLE PHASE WITH 10 CIRCUIT BREAKERS, SINGLE POLE, 277V., 100 AMP. BASE 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 480V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. BASE, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
G	1	TRANSFORMER, 1.5 KVA, 240V PRIMARY 120V SECONDARY
H	1	SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., GFI DUPLEX RECEPTACLE.
K	2	NEUTRAL BUS 1/4" x 1" x 12" LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS, PROVIDE SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 4" x 4" BOX.
M	1	GROUND BUS 1/4" x 1" x 12" LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS, PROVIDE SPARE LUGS.
N	1	POWER RELAY WITH CONTACTS RATED FOR CONTACTORS IN RUSH CURRENT.

NOTES:

- THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3R (OUTDOOR) CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.
- THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 36"x 60"x3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE PART OF LIGHTING CONTROLLER PAY ITEM.
- CONTROL WIRING SHALL BE #12 AWG, 600 V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED. THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR TO THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.
- THE CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONTACTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 & BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- THE CONTROL CABINET SHALL BE FACORYRY PAINTED WITH POWDER COATED GREEN (FIELD PAINTING WILL NOT BE ALLOWED).
- ALL ELECTRICAL COMPONENTS AND MATERIAL SHALL BE UNDERWRITERS LABORATORY (U/L) LISTED.



CONTROL CABINET - CONSOLE TYPE



Globetrotters®
Engineering Corporation

ENGINEERS ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606
Tel. 312/922-6400



LIGHTING
ELECTRICAL NOTES

BUFFALO GROVE ROAD AT PORT CLINTON ROAD

SCALE: NONE

DATE: 04/15/04

DESIGNED BY: GDS

CHECKED BY: ADO

E-6